

WHAT IS CLAIMED IS:

1. An exercise bicycle comprising:

a frame having a base, a driven member having an end pivotably connected to
5 said base, and a contacting portion positioned on said driven member; and

a driven wheel stationarily rotatably connected to said base and having a
rolling face contacted with the contacting portion of the driven member for driving said
driven member to reciprocatingly pivot to said base when the driven wheel is driven to
rotate.

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2. The exercise bicycle as defined in claim 1 further comprising a driving
wheel stationarily rotatably connected to said base, a crank connected at an end thereof
to the driving wheel, a pedal connected to the other end of the crank for the user's leg
pedaling, a saddle connected to the other end of the driven member, and a belt; wherein
15 said driven wheel is a cam having a cylindrical axial neck protruded at a side thereof;
said belt running on said driving wheel and said axial neck of the driven wheel; said
contacting portion is formed of a roller that is rotatably connected to said driven
member.

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3. The exercise bicycle as defined in claim 2, wherein said driven wheel is an
eccentric wheel having a circular outer edge forming the rolling face; said roller
engages against said rolling face of said eccentric wheel.

4. The exercise bicycle as defined in claim 2, wherein said driven wheel is a
25 discoid cam having an outer edge forming said rolling face; said roller engages against

said rolling face of said discoid cam.

5. The exercise bicycle as defined in claim 2, wherein said driven wheel is a face cam recessed at a side thereof with an annular ditch forming said rolling face; said
5 roller is received in said annular ditch to engage an inner periphery of said annular ditch at an outer edge thereof.

6. The exercise bicycle as defined in claim 2, wherein said driven wheel is a ribbed cam having an annular rib around an outer edge thereof forming said rolling face;
10 said contacting portion is formed of two rollers respectively engaging against an inner periphery and an outer periphery of said annular rib.

7. The exercise bicycle as defined in claim 2, wherein said driven wheel is rotated along with the driving wheel driven by the user's legs pedaling said pedal.
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8. The exercise bicycle as defined in claim 2, wherein said driving wheel further comprises an active gear, said exercise bicycle further comprising a motor for driving a passive gear in mesh with said active gear to rotate and further driving said driving wheel and said driven wheel to rotate synchronously.
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9. The exercise bicycle as defined in claim 2, wherein said frame comprises a handrail, said handrail being fixedly connected with said driven member at an end thereof.

25 10. The exercise bicycle as defined in claim 1, wherein said driven wheel is a

cam and is connected with a crank and a pedal for the user's legs pedaling, said driven wheel being rotated by the user's legs pedaling.

11. The exercise bicycle as defined in claim 1, wherein said driven wheel is a
5 cam and is connected with a crank and a pedal for the user's pedaling; the exercise bicycle further comprising an active gear being coaxially mounted at a side of said driven wheel, a motor driving a passive gear in mesh with said active gear to rotate and further to drive said driven wheel, said crank, and said pedal to rotate.